

Claims

1. A process for producing a dosage form in film form
5 for surface administration of at least one active ingredient and/or nutrient to a living creature comprising at least one active ingredient-containing and/or nutrient-containing layer based on hydrophilic polymers crosslinked with at least one polyacrylic acid
10 derivative by building up individual layers successively on a smooth surface, characterized by the steps:
 - a) simultaneous spraying of an aqueous solution of the hydrophilic polymers and of the active ingredient
15 and/or of the nutrient and of an aqueous solution of the polyacrylic acid derivative,
 - b) removal of the water by drying.
2. The production process as claimed in claim 1,
20 characterized in that an optionally crosslinked polyacrylic acid, preferably a polyacrylic acid crosslinked with allylsucrose or allylpentaerythritol and/or a polyacrylic acid crosslinked with divinylglycol, where appropriate neutralized with
25 calcium, is used as polyacrylic acid derivative.
3. The production process as claimed in claim 1 or 2, characterized in that hydroxypropylmethylcellulose, hydroxyethylcellulose and/or methylcellulose,
30 preferably hydroxypropylmethylcellulose, is employed as hydrophilic polymer.
4. The production process as claimed in any of claims 1 to 3, characterized in that the weight ratio of
35 hydrophilic polymers to polyacrylic acid derivative(s) is from 5:1 to 5:4, preferably 5:2 to 5:3.

5. A dosage form produced as claimed in any of claims 1 to 4.

6. The dosage form as claimed in claim 5,
5 characterized in that it has at least one active ingredient-containing and/or nutrient-containing layer, a covering layer and where appropriate an adhesive layer.

10 7. The dosage form as claimed in claim 5 or 6, characterized in that at least one active ingredient-containing layer has a concentration gradient of the active ingredient.

15 8. The dosage form as claimed in any of claims 5 to 7, characterized in that the covering layer is impermeable for the active ingredient and/or nutrient.

20 9. The dosage form as claimed in any of claims 5 to 8, characterized in that it is covered with a protective layer before application.